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**IN THE UNITED STATES PATENT AND  
TRADEMARK OFFICE**

Phoenix, Arizona

**Applicant -** Ralph Johnson      **Group:** 2828  
**Serial No. -** 10/026,016      **Examiner:** Tuan M. Nguyen  
**Filed -** 12-20-2001      **Atty Docket No.:** V637-02673 US  
**For -** VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING  
INDIUM, ANTIMONY AND NITROGEN IN THE ACTIVE  
REGION

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Box Patent Application  
Assistant Commissioner of Patents  
POB 1450  
Alexandria, VA 22313-1450

Dear Sir:

The following sections are being submitted for this Supplemental Information  
Disclosure Statement:

## 1. Preliminary Statements.

Applicant submits herewith additional patents, publications or other information as the result of an International Search Report relative to U. S. application serial number 10/026,055, that he believes may be material to the patentability of the claims under consideration in this application and in respect of which there may be a duty to disclose under 37 C.F.R. § 1.56.

The filing of this Supplemental Information Disclosure Statement shall not be construed as a representation that a search has been made (37 CFR § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56 (37 C.F.R. § 1.97(h)), or that no other material information exists.

The filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that the references are prior art within the meaning of 35 U.S.C. §§ 102 or 103. Further, any explanation, if provided, is not to be construed as a representation that the references have been thoroughly reviewed. In particular, no representation as to the relevance of any portion of any reference is intended.

The filing of this Supplemental Information Disclosure Statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

2. Form PTO-1449, List of Prior Art Cited by Applicant, citing no U.S. patents, one foreign patent, and two publications.

3. These references are in addition to those listed in the Information Disclosure Statement and Form PTO 1449 filed with the Patent and Trademark Office on April

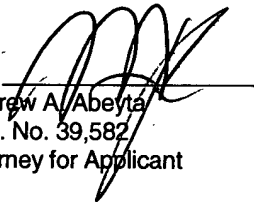
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16, 2003 and the Supplemental Information Disclosure Statement and Form PTO 1449 filed with the Patent and Trademark Office on April 18, 2003.

4. The person making this statement is the attorney who signs below on the basis of the information supplied by the inventor(s) and the information in the attorney's file.

5. The Office is authorized to charge Applicant's Deposit Account 01-1125 for any fee that may be due under 37 C.F.R. § 1.17(p) for consideration of this IDS and for any other fee that may be due.

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By:   
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**CERTIFICATE OF MAILING**

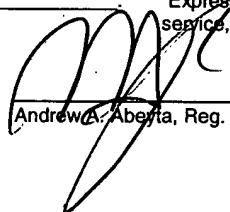
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## COMPLETE IF KNOWN

|                        |                   |
|------------------------|-------------------|
| Application Number     | 10/026,016        |
| Filing Date            | December 20, 2001 |
| First Named Inventor   | Ralph Johnson     |
| Art Unit               | 2828              |
| Examiner Name          | Tuan M Nguyen     |
| Attorney Docket Number | V637-002673 US    |

## U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|-----------------|--------------------------------------|--------------------------------|--|--|
|                    |                       | Number          | Kind Code <sup>2</sup><br>(if known) |                                |  |  |
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## FOREIGN PATENT DOCUMENTS

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|--------------------|-----------------------|---------------------------|---------------------|--------------------------------------|--------------------------------|---|--|----------------|
|                    |                       | Country Code <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>5</sup><br>(if known) |                                |   |  |                |
|                    |                       | EP                        | 0 975 073 ✓         | A1                                   | 01-26-2000                     | NEC Corporation                                 |  |                |
|                    |                       |                           |                     |                                      |                                |   |  |                |
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| Sheet | 2 | Of | 2 |
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**COMPLETE IF KNOWN**

|                               |                   |
|-------------------------------|-------------------|
| <b>Applicati n Number</b>     | 10/026,016        |
| <b>Filing Date</b>            | December 20, 2001 |
| <b>First Named Inventor</b>   | Ralph Johnson     |
| Group Art Unit                | 2828              |
| <b>Examiner Name</b>          | Tuan M Nguyen     |
| <b>Attorney Docket Number</b> | V637-02673 US     |

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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| Examiner<br>Signature |  | Date<br>Considered |  |
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